

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Subbarao Surampudi, et al.      Art Unit: 1745  
Serial No.: 10/797,625      Examiner: S. Kalafut  
Filed : March 9, 2004  
Title : DIRECT METHANOL FEED FUEL CELL AND SYSTEM

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants call attention to the attached Information Disclosure Statement and documents listed on form PTO-1449.

This filing is being made before the receipt of a first Office action on the merits. No fee is required.

Each enclosed document listed on the herewith Form PTO-1449 was cited in a counterpart United States or foreign application.

Design IDs "DN" (FR 1 512 263) and "DO" (DE 1 258 842) are in the French and German language, respectively. No full translation is readily available. A concise explanation of these documents can be found on the attached search report (6 pages).

The documents listed below are in languages other than English. If available, English equivalents have been provided. In the absence of an English equivalent, applicants have provided an abstract.

<b>Design ID</b>	<b>Document Number</b>	<b>Country (Language)</b>	<b>English Counterpart, or Abstract</b>
CY	0 154 772	Europe (German)	US 4,619,753
DB	0 248 394	Europe (German)	US 4,828,941
DH	0 546 594	Europe (German)	US 5,308,465
DJ	0 596 366	Europe (German)	US 5,478,662
DM	1 436 154	France (French)	GB 1 082 575
DP	1 907 737	Germany (German)	GB 1 304 092
DQ	41 16 359	Germany (German)	Abstract only
DR	42 43 600	Germany (German)	US 5,409,785
DZ	54-076443	Japan (Japanese)	Abstract only
EA	56-118273	Japan (Japanese)	Abstract only
EB	57-019973	Japan (Japanese)	Abstract only
EC	57-196479	Japan (Japanese)	Abstract only
ED	58-004274	Japan (Japanese)	US 4,390,603
EE	58-016471	Japan (Japanese)	Abstract only
EF	58-034573	Japan (Japanese)	US 4,390,603
EG	58-165274	Japan (Japanese)	Abstract only
EH	58-186170	Japan (Japanese)	US 4,493,878
EI	59-157963	Japan (Japanese)	Abstract only
EJ	59-209277	Japan (Japanese)	Abstract only
EK	60-023977	Japan (Japanese)	Abstract only
EL	60-151969	Japan (Japanese)	Abstract only
EM	60-165062	Japan (Japanese)	Abstract only
EN	61-042871	Japan (Japanese)	Abstract only

<b>Design ID</b>	<b>Document Number</b>	<b>Country (Language)</b>	<b>English Counterpart, or Abstract</b>
EO	61-058170	Japan (Japanese)	Abstract only
EP	62-010872	Japan (Japanese)	Abstract only
EQ	62-086662	Japan (Japanese)	Abstract only
ER	62-208553	Japan (Japanese)	US 4,931,168
ES	62-246265	Japan (Japanese)	Abstract only
ET	62-296372	Japan (Japanese)	US 4,828,941
EU	63-066860	Japan (Japanese)	Abstract only
EV	63-076264	Japan (Japanese)	Abstract only
EW	63-076269	Japan (Japanese)	Abstract only
EX	63-088860	Japan (Japanese)	US 4,829,017
EY	64-077876	Japan (Japanese)	Abstract only
EZ	01-146263	Japan (Japanese)	Abstract only
FA	02-051865	Japan (Japanese)	Abstract only
FB	02-098053	Japan (Japanese)	Abstract only
FC	02-114452	Japan (Japanese)	Abstract only
FE	02-223984	Japan (Japanese)	Abstract only
FF	03-145062	Japan (Japanese)	Abstract only
FG	04-014473	Japan (Japanese)	Abstract only
FI	04-162365	Japan (Japanese)	US 5,186,877
FJ	04-229958	Japan (Japanese)	Abstract only

The documents are in the English language; hence no concise explanation is necessary per Rule 98(a)(3).

Consideration of the foregoing and enclosures plus the return of a copy of the enclosed form PTO-1449 with the Examiner's initials in the left column per MPEP 609 are earnestly solicited along with an early action on the merits.

Applicant : Subbarao Surampudi, et al.  
Serial No.: 10/797,625  
Filed : March 9, 2004  
Page 4 of 4

Attorney's Docket No.: 06816-023009  
CIT 2209-2C-D4-C-C

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account 06-1050.

Respectfully submitted,

Date: August 27, 2007

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. <b>06816-023009</b>	Application No. <b>10/797,625</b>
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant <b>Subbarao Surampudi, et al.</b>	
		Filing Date <b>March 9, 2004</b>	Group Art Unit <b>1745</b>

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	2001/0028975	10/2001	Narayanan et al.			
	AB	2001/0052389	12/2001	Chun et al.			
	AC	2002/0058178	05/2002	Narayanan et al.			
	AD	2003/0008190	01/2003	Chisholm et al.			
	AE	2003/0066476	04/2003	Caillat et al.			
	AF	2003/0207167	11/2003	Prakash et al.			
	AG	2003/0226763	12/2003	Narayanan et al.			
	AH	2004/0166397	08/2004	Valdez et al.			
	AI	2004/0224214	11/2004	Vamos et al.			
	AJ	2004/0229108	11/2004	Valdez et al.			
	AK	2004/0234834	11/2004	Narayanan et al.			
	AL	2005/0214629	09/2005	Narayanan et al.			
	AM	2006/0204810	09/2006	Surampudi et al.			
	AN	2006/0216576	09/2006	Karayanan et al.			
	AO	3,388,922	06/1968	Gembruch			
	AP	3,615,838	10/1971	Erickson			
	AQ	4,390,603	06/1983	Kawana et al.			
	AR	4,493,878	01/1985	Horiba et al.			
	AS	4,619,753	10/1986	Christen et al.			
	AT	4,625,395	12/1986	Rowlette			
	AU	4,658,499	04/1987	Rowlette			
	AV	4,729,889	03/1988	Flytani-Stephanopoulos et al.			
	AW	4,729,932	03/1988	McElroy			
	AX	4,769,297	09/1988	Reiser et al.			
	AY	4,828,941	05/1989	Sterzel			
	AZ	4,829,017	05/1989	Malhi			
	BA	4,898,631	02/1990	Collins, Jr.			

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	BB	4,920,475	04/1990	Rippel			
	BC	4,931,168	06/1990	Watanabe et al.			
	BD	4,957,673	09/1990	Schroeder et al.			
	BE	5,057,362	10/1991	Schroeder et al.			
	BF	5,084,144	01/1992	Reddy et al.			
	BG	5,175,064	12/1992	Labinger et al.			
	BH	5,186,806	02/1993	Clark et al.			
	BI	5,186,877	02/1993	Watanabe			
	BJ	5,252,528	10/1993	Voecks et al.			
	BK	5,308,465	05/1994	Hillrichs et al.			
	BL	5,364,711	11/1994	Yamada et al.			
	BM	5,409,785	04/1995	Nakano et al.			
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	BP	5,656,388	08/1997	Bugga et al.			
	BQ	5,795,496	08/1998	Yen et al.			
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	BS	5,945,231	08/1999	Narayanan et al.			
	BT	5,992,008	11/1999	Kindler			
	BU	6,027,630	02/2000	Cohen			
	BV	6,136,463	10/2000	Kindler et al.			
	BW	6,150,047	11/2000	Yen et al.			
	BX	6,171,721	01/2001	Narayanan et al.			
	BY	6,221,523	04/2001	Chun et al.			
	BZ	6,228,518	05/2001	Kindler			
	CA	6,277,447	08/2001	Chun et al.			
	CB	6,291,093	09/2001	Kindler et al.			

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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	CC	6,299,744	10/2001	Narayanan et al.			
	CD	6,306,285	10/2001	Narayanan et al.			
	CE	6,368,492	04/2002	Narayanan et al.			
	CF	6,391,486	05/2002	Narayanan et al.			
	CG	6,399,235	06/2002	Yen et al.			
	CH	6,432,284	08/2002	Narayanan et al.			
	CI	6,440,594	08/2002	Kindler et al.			
	CJ	6,444,341	09/2002	Yen et al.			
	CK	6,444,343	09/2002	Prakash et al.			
	CL	6,458,319	10/2002	Caillat et al.			
	CM	6,468,684	10/2002	Chisholm et al.			
	CN	6,475,369	11/2002	Cohen			
	CO	6,485,851	11/2002	Narayanan et al.			
	CP	6,533,919	03/2003	Narayanan et al.			
	CQ	6,579,068	06/2003	Bridger et al.			
	CR	6,613,972	09/2003	Cohen et al.			
	CS	6,621,687	09/2003	Lewis, Jr. et al.			
	CT	6,680,139	01/2004	Narayanan et al.			
	CU	6,756,145	06/2004	Narayanan et al.			
	CV	6,790,377	09/2004	Cohen			
	CW	7,056,428	06/2006	Narayanan et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	CX	0 072 038	02/1983	Europe				
	CY	0 154 772	09/1985	Europe			X	
	CZ	0 181 569	05/1986	Europe				

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							Yes	No
	DA	0 241 432	10/1987	Europe				
	DB	0 248 394	12/1987	Europe			X	
	DC	0 301 757	02/1989	Europe				
	DD	0 426 546	05/1991	Europe				
	DE	0 435 724	07/1991	Europe				
	DF	0 448 719	10/1991	Europe				
	DG	0 483 085	04/1992	Europe				
	DH	0 546 594	06/1993	Europe			X	
	DI	0 589 535	03/1994	Europe				
	DJ	0 596 366	05/1994	Europe			X	
	DK	0 642 185	03/1995	Europe				
	DL	0 764 466	03/1997	Europe				
	DM	1 436 154	04/1966	France			X	
	DN	1 512 263	02/1968	France				X
	DO	1 258 842	01/1968	Germany				X
	DP	1 907 737	08/1970	Germany			X	
	DQ	41 16 359	11/1992	Germany (w/abstract)				X
	DR	42 43 600	07/1993	Germany			X	
	DS	1 082 575	09/1967	Great Britain				
	DT	1 160 084	07/1969	Great Britain				
	DU	1 213 777	11/1970	Great Britain				
	DV	1 221 683	02/1971	Great Britain				
	DW	1 258 153	12/1971	Great Britain				
	DX	1 304 092	01/1973	Great Britain				
	DY	1 534 015	11/1978	Great Britain				
	DZ	54-076443	06/1979	Japan (w/abstract)				X
	EA	56-118273	09/1981	Japan (w/abstract)				X

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	EB	57-019973	02/1982	Japan (w/abstract)				X
	EC	57-196479	12/1982	Japan (w/abstract)				X
	ED	58-004274	01/1983	Japan			X	
	EE	58-016471	01/1983	Japan (w/abstract)				X
	EF	58-034573	03/1983	Japan			X	
	EG	58-165274	09/1983	Japan (w/abstract)				X
	EH	58-186170	10/1983	Japan			X	
	EI	59-157963	09/1984	Japan (w/abstract)				X
	EJ	59-209277	11/1984	Japan (w/abstract)				X
	EK	60-023977	02/1985	Japan (w/abstract)				X
	EL	60-151969	08/1985	Japan (w/abstract)				X
	EM	60-165062	08/1985	Japan (w/abstract)				X
	EN	61-042871	03/1986	Japan (w/abstract)				X
	EO	61-058170	03/1986	Japan (w/abstract)				X
	EP	62-010872	01/1987	Japan (w/abstract)				X
	EQ	62-086662	04/1987	Japan (w/abstract)				X
	ER	62-208553	09/1987	Japan			X	
	ES	62-246265	10/1987	Japan (w/abstract)				X
	ET	62-296372	12/1987	Japan			X	
	EU	63-066860	03/1988	Japan (w/abstract)				X
	EV	63-076264	04/1988	Japan (w/abstract)				X
	EW	63-076269	04/1988	Japan (w/abstract)				X
	EX	63-088860	04/1988	Japan			X	
	EY	64-077876	03/1989	Japan (w/abstract)				X
	EZ	01-146263	06/1989	Japan (w/abstract)				X
	FA	02-051865	02/1990	Japan (w/abstract)				X
	FB	02-098053	04/1990	Japan (w/abstract)				X

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	FC	02-114452	04/1990	Japan (w/abstract)				X
	FD	02-148657	06/1990	Japan			X	
	FE	02-223984	09/1990	Japan (w/abstract)				X
	FF	03-145062	06/1991	Japan (w/abstract)				X
	FG	04-014473	01/1992	Japan (w/abstract)				X
	FH	04-132168	05/1992	Japan			X	
	FI	04-162365	06/1992	Japan			X	
	FJ	04-229958	08/1992	Japan (w/abstract)				X
	FK	04-305249	10/1992	Japan			X	
	FL	05-135785	06/1993	Japan			X	
	FM	06-052871	02/1994	Japan			X	
	FN	06-073583	03/1994	Japan			X	
	FO	06-150937	05/1994	Japan			X	
	FP	06-188008	07/1994	Japan			X	
	FQ	06-203840	07/1994	Japan			X	
	FR	06-236762	08/1994	Japan			X	
	FS	06-251779	09/1994	Japan			X	
	FT	06-251780	09/1994	Japan			X	
	FU	06-275305	09/1994	Japan			X	
	FV	WO92/02965	02/1992	WIPO				
	FW	WO94/11914	05/1994	WIPO				
	FX	WO94/16811	08/1994	WIPO				
	FY	WO95/06335	03/1995	WIPO				
	FZ	WO97/21256	06/1997	WIPO				

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		Filing Date <b>March 9, 2004</b>	Group Art Unit <b>1745</b>

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	GA	Hamnett, et al., "Electrocatalysis and the Direct Methanol Fuel Cell", <i>Chemistry and Industry Review</i> , No. 13, pp. 480-483, July 1992.
	GB	Watanabe, "Improvement of the performance and durability of anode for direct methanol fuel cells", <i>Proceedings of the Workshop on Direct Methanol Air Fuel Cells</i> , Vol. 92-14, pp. 24-36, (1992).
	GC	Zawodzinski, et al., "Methanol Cross-Over in DMFC'S: Development of Strategies for Minimization", <i>The Electrochemical Society Spring Meeting</i> , 1994, St. Louis, MO, Abstract No. 613, Vol. 94/2, pg. 960, (1992).

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